



Bienvenido al Centro Naval de Seguridad

Vice Admiral Castro Rosas
27 October 2004

RADM Dick Brooks, USN
Commander, Naval Safety Center



Mission Statement



Our purpose is to enhance the warfighting capability of the Navy and Marine Corps by arming our Sailors, Marines and civilians with the knowledge they need to save lives and preserve resources while accomplishing their missions.

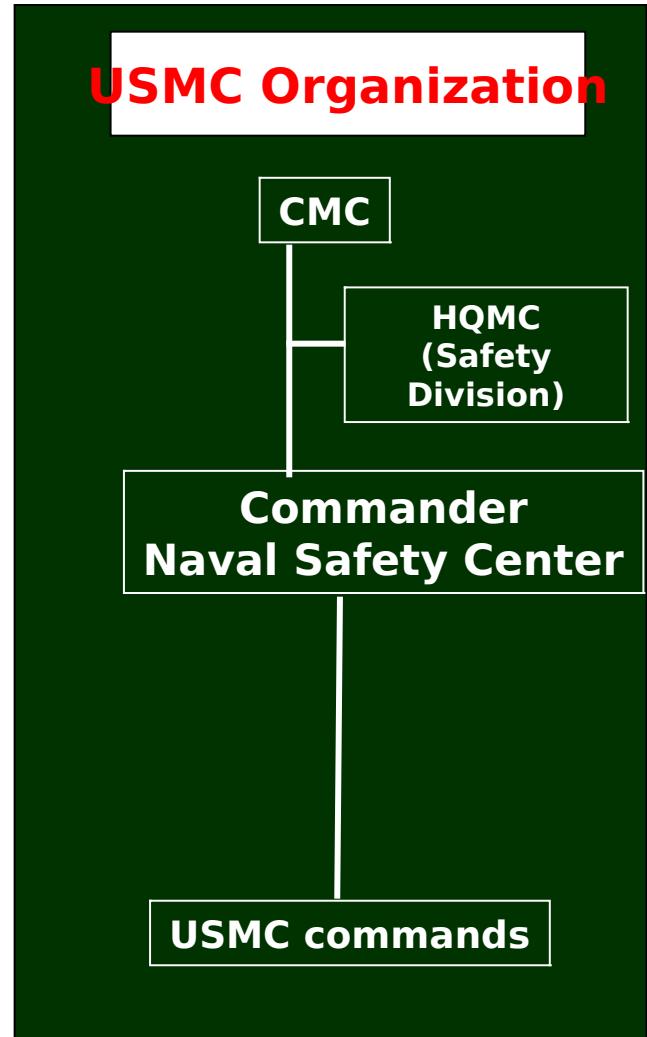
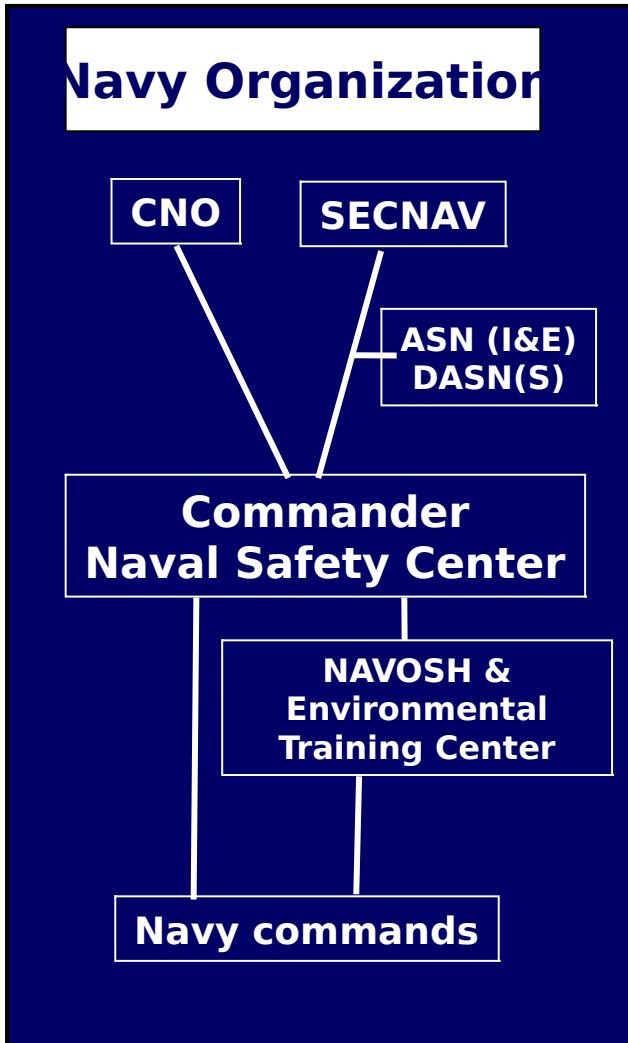
Mission: Readiness

Product: Awareness

Process: Education



HOW WE'RE ORGANIZED (External)

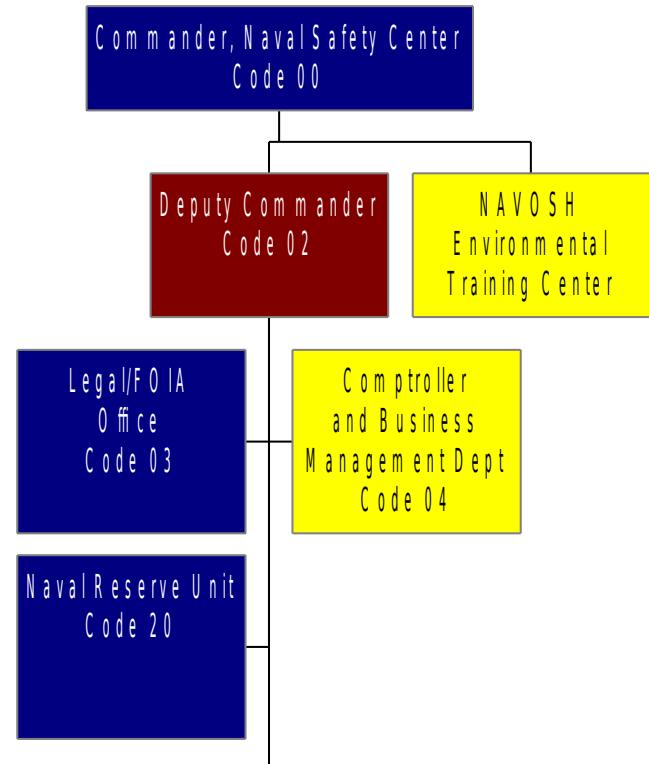




Naval Safety Center Organization

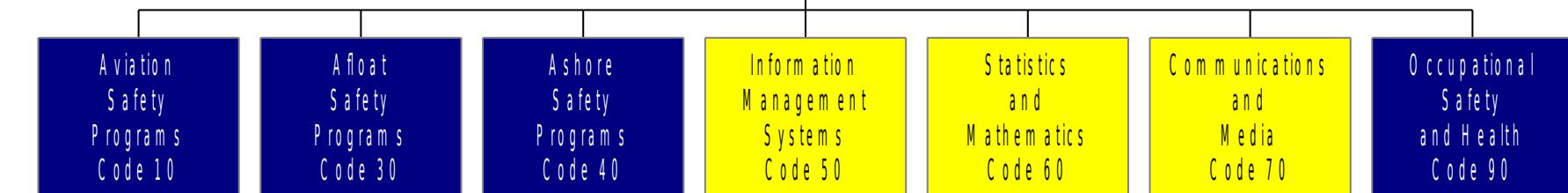


NSC Manning	FY04
USN Uniformed	98
USN Civilian	91
USMC Uniformed	16
USMC Civilian	7



NAVOSH ENVIRONMENTAL TRAINING CENTER Manning	FY04
USN Uniformed	7
USN Civilian	22

- USN Active Duty**
- USMC Active Duty**
- DON Civilian**





Secretary Rumsfeld's Challenge



THE SECRETARY OF DEFENSE
1000 DEFENSE PENTAGON
WASHINGTON, DC 20301-1000

May 19, 2003

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
DIRECTOR, DEFENSE RESEARCH AND ENGINEERING
ASSISTANT SECRETARIES OF DEFENSE
GENERAL COUNSEL OF THE DEPARTMENT OF DEFENSE
INSPECTOR GENERAL OF THE DEPARTMENT OF DEFENSE
DIRECTOR, OPERATIONAL TEST AND EVALUATION
ASSISTANTS TO THE SECRETARY OF DEFENSE
DIRECTOR, ADMINISTRATION AND MANAGEMENT
DIRECTOR, FORCE TRANSFORMATION
DIRECTOR, NET ASSESSMENT
DIRECTOR, PROGRAM ANALYSIS AND EVALUATION
DIRECTORS OF THE DEFENSE AGENCIES
DIRECTORS OF THE DOD FIELD ACTIVITIES

SUBJECT: Reducing Preventable Accidents

World-class organizations do not tolerate preventable accidents. Our accident rates have increased recently, and we need to turn this situation around. I challenge all of you to reduce the number of mishaps and accident rates by at least 50% in the next two years. ~~These goals are achievable, and will directly increase our operational readiness. We owe no less to the men and women who defend our Nation.~~

I have asked the Under Secretary of Defense for Personnel and Readiness to lead a department-wide effort to focus our accident reduction effort. I intend to be updated on our progress routinely. The USD(P&R) will provide detailed instructions in separate correspondence.



U06916-03

"World-class organizations do not tolerate preventable accidents. Our accident rates have increased recently, and we need to turn this situation around. I challenge all of you to reduce the number of mishaps and accident rates by at least 50% in the next two years. I challenge all of you to reduce the number of mishaps and accident rates by at least 50% in the next two years."

Memorandum from Secretary of Defense
19 May 2003



Magnitude of Accidents



In FY04, Navy and Marine Corps Mishaps Resulted In:

NAVY

- **1 Navy death every 78 hours (3 days)**
- **1 POV death every 120 hours (5 days)**
- **1 Aviation death every 73 days**
- **1 Active duty military injury every 6 hours**
- **1.8 Military members hospitalized every day**
- **11.33 Civilian man-years lost**
- **1 Aircraft destroyed every 41 days**
- **\$1.33 Million a day in aviation losses**

MARINE CORPS

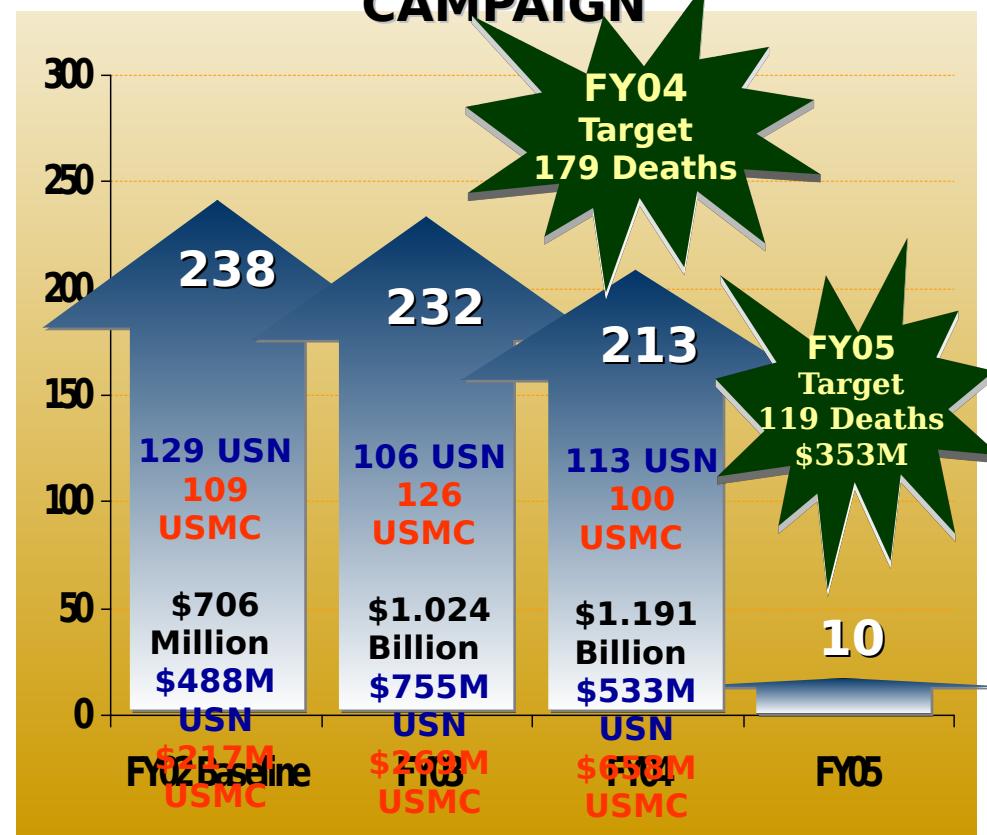
- **1 Marine death every 88 hours (4 days)**
- **1 POV death every 191 hours (8 days)**
- **1 Aviation death every 26 days**
- **1 Active duty military injury every 25 hours**
- **1.9 Military members hospitalized every day**
- **2.53 Civilian man-years lost**
- **1 Aircraft destroyed every 19 days**
- **\$1.74 Million a day in aviation losses**



Why Safety ?



FATALITIES & RESOURCES LOST DURING 50% MISHAP REDUCTION CAMPAIGN



We have experienced 10 deaths in FY05 (8 USN & 2 USMC)

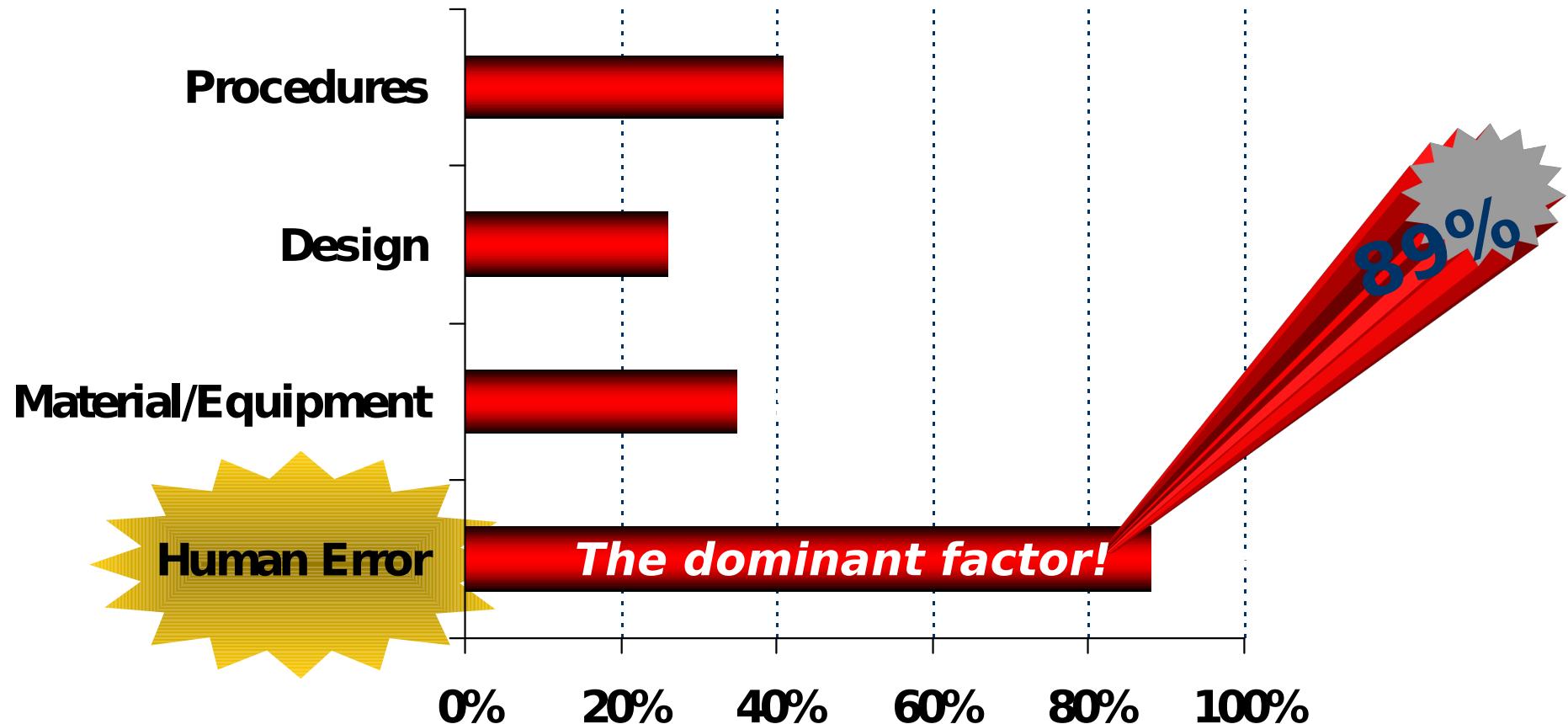
Our FY05 50% mishap reduction

Naval Aviation mishap costs exceeded \$1Billion in FY04!

***OUR ENDSTATE GOAL IS
ZERO!***



Most Common Mishap Causes





Commander's Assessment



● **Status Quo Will Not Get the Job Done.**

Good programs exist and have produced some good results, but...

TOP CONCERNS

- Off-Duty (PMV, REC) the challenge
- Cultural change takes time

● **Leadership and Accountability Required.** Most mishaps can be prevented with appropriate intrusive leadership and involvement at every level.

● **Cradle to Grave Training as Long-Term Fix.** 5 Vector Model being worked by Navy Center for Personal Development.

● **Safety Center & Navy-Marine Corps Focus.** Predictive and Preparative vice Reactive.

● **Utilize All Available Safety Resources.** Army Safety Management Information System, Traffic Safety Toolbox, Leave/Liberty Risk Assessments, etc.

● **Emphasize Safety and Risk Management “24x7.”** A way of life. Not a concept that gets increased emphasis post-mishap.

● **Balanced Acquisition Approach.** Balanced acquisition approach for platforms and COTS/emergent technologies to reduce mishaps.

● **ORM is Getting There, But More to Do to Ingrain It On and Off-**

● **Duty Bottom Line**

PLATFORM MISHAP REDUCTION - ACHIEVABLE. OFF-DUTY - HARD



Naval Safety Center Services



- **Briefs**
- **Safety Surveys**
- **Publications**
- **Training**
- **WEB Page**
- **Data and Statistics**
- **Mishap Investigation**
- **Mishap Reporting**
- **MSI/Interactive CDs**
- **Risk Management**





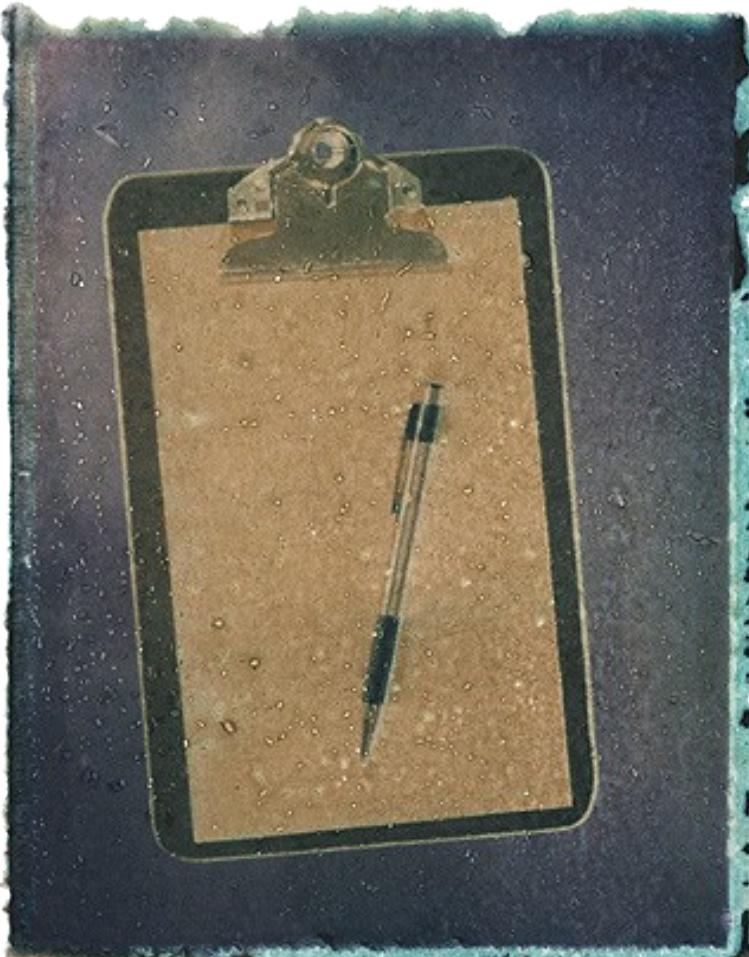
Safety Center Perspective



- ***Peacetime vs. wartime: No differentiation of services and support provided.***
- ***Operational mishaps only are investigated.***
- ***Analysis and lessons learned provided primarily by operational commanders.***



What's a Safety Survey?



- ✓ ***Free assessment by Safety Center analysts***
- ✓ ***Survey teams train crews to identify hazards and fix problems with their programs***
- ✓ ***No formal reports to higher authority -- not an inspection***
- ✓ ***Available for Aviation, Afloat, and Shore based commands***



Safety Survey End of the Day Result



- ***Report only to the Commanding Officer***
- ***Significant discrepancies reviewed***
- ***One-on-one training on the deck plates***
- ***Snap shot of crews awareness***
- ***Is preventive maintenance being accomplished?***
- ***Are safety programs functioning?***
- ***Crews knowledge of governing requirements increased***



What We Do For The



Naval Safety Center



Providing aviation, afloat, and shore support
to Navy and Marine Corps commands



NSC at your service... for free!

Let our experience, expertise and unrivaled
commitment to safety work for you.

Mishap Investigations

Surveys

Assist Visits

Data Analysis

Workshops

Publications

Website

Presentations

Exhibits

Call 757-444-3520 (DSN 564) or visit our website: www.safetycenter.navy.mil

ON THE ROAD

- Culture workshops
- Unit surveys
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings
- NAVOSHENVTRACEN Safety & Occupational Health Training

AWARENESS

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)
- Safety Center web page



Safety Toolbox for Commands



- **Presentations**
- **Safety Messages**
- **Frequently Asked Questions**
- **Checklists**
 - **Equipment**
 - **Programs**
- **Guides for**
 - **Mishap Investigation**
 - **Availabilities**
- **Plan of the Day Notes**
- **WEB PAGE:**
www.safetycenter.navy.mil

Checklists | Downloads | Instructions | ORM | Presentations | Site Map | Search

Afloat | Ashore | Aviation | Magazines | OSH | Statistics | Training

Top Pages

- Photo of the Week
- WESS - Online Reporting
- 1,001 Success Stories
- ASMIS-1
- Acquisition Safety
- 50% Mishap Reduction
- Exec. Safety Summary
- Media Kit
- Safetyline eNewsletter
- SafeTips
- Traffic Safety Toolbox
- What's New on our Site


Video: Heaven Can Wait

Magazines

-  Approach
 - Jul - Aug 2004
-  Sea&Shore
 - Fall 2004
-  Mech
 - Summer 2004
-  Ground Warrior
 - Summer 2003

[Additional Features](#)

[Make Us Your Home Page](#)
Last Updated: 26 Oct 2004

Safely in the Spotlight...
Our Number One Hot Button

SECNAV Calls Safety our "Number One Hot Button" in Mid-Year Report Card.

[More >>](#) [Previous News >>](#)

News & Articles

- [Halloween Resources](#)
- [Good Samaritan](#) - Find out about the pilot program in the Norfolk, Va., area, and how you or your business can become a partner in safety.
- [Nominations Due for FY04 Admiral Vern Clark and General James L. Jones Safety Awards](#)
- [One Drink Too Many Presentation](#)

Services [Site Map >>](#)

Magazines

- Acquisition Safety
- Admiral's Bio
- Contact Us
- Culture Workshop
- FOIA
- N/MC Safety Council
- Newsroom & Press Kit
- Online Reporting
- Our Mission
- Public Affairs Officer
- Reserve Unit
- Resource Pages
- Safety Awards
- Safety Posters
- Seasonal Resources
- Secure Site (.mil)
- Staff Directory
- Training
- Useful Links
- Videos

[Additional resources can be found on our secure site](#)
[Including the Summary of Mishaps](#)
[- available to .mil customers only](#)

This is an official U.S. Navy Web site.
Naval Safety Center, 375 A St. Norfolk, VA 23511
Contact the [Webmaster](#) or [Public Affairs Officer](#)

Shore Safety

- Explosives/Ordnance
- Fire Data Analysis
- High Risk Training
- Motor Vehicle
- Recreation
- Tactical

Aviation Safety

- Aeromedical
- BASH
- Data Analysis
- Maintenance
- Operations

Afloat Safety

- Diving
- Submarine
- Surface Warfare

Occ. Safety & Health

- Civilian Communities
- Lost Work Day Data
- Ergonomics
- Shore OSH
- Afloat OSH
- Ground/Marine OSH

Marine Corps Safety

- Marine Safety Division
- Marine Corps Instructions
- Ground Warrior Magazine

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“Heaven Can Wait”

Social Marketing Video Courtesy of
Duval Guillaume, Brussels



Class A Mishap



Naval Safety Center

- provides research and analysis to support Fleet and Marine Corps units.
- investigator sent to assist the Mishap Investigation Board (upon request).

Mishap Investigations

- conducted solely to determine causal factors.
- help prevent future mishaps.
- findings, analysis and recommendations of the MIB are not released to public.
- adverse action cannot be taken against an individual based on the results of the safety investigation.
- sanitized lessons learned are distributed throughout the fleet.



Mishap Reporting



- Critical to overall success of Safety program
 - “You can’t fix what you don’t know about!”
- Mishap classifications define and standardize measurable metrics throughout the military
 - **Class A Mishap**. Total cost is \$1,000,000 or more; or any injury or work-related illness resulting in death or permanent total disability.
 - **Class B Mishap**. Total cost is \$200,000 or more, but less than \$1,000,000; an injury or work-related illness resulting in permanent partial disability; or a mishap resulting in the hospitalization of three or more people.
 - **Class C Mishap**. Total cost is \$20,000 or more, but less than \$200,000; or an injury or disability preventing personnel from performing regularly scheduled duty for 5 days.



Learning from our mistakes - Case Studies



Lessons learned from Afloat mishap investigations have been built into an interactive cd-rom that facilitates unit training.

It offers several levels of training including the capability to interact with the scenario. Specifically, trainees can vary the course and speed of the vessel during the event. The compact disk includes:

- a. A two-dimensional overview of the contact situation and environment leading up to the collision or grounding.
- b. A three-dimensional view of the mishap with various perspectives provided.
- c. Privileged lessons learned messages on the mishaps.

Feedback on the software is requested utilizing the Mishap Case Study Critique Sheet. We plan to provide additional programs documenting other ship or submarine mishaps and your feedback will improve the product.



Operational Risk Management



Three Levels

- **Time-Critical:** *On-the run considerations of the process.*
- **Deliberate:** *Application of the complete process.*
- **In-Depth:** *Complete process with detailed analysis.*

Four Principles

- **Accept risk when benefits outweigh the cost.**
- **Accept no unnecessary risks.**
- **Anticipate and manage risk by planning.**
- **Make risk decisions at the right level.**



Five - Step ORM Process

1. Identify Hazards
2. Assess Hazards
3. Make Risk Decisions
4. Implement Controls
5. Supervise



ORM and the Fleet

COURSE S

● **Immersion Training.** Complete for Aviation and Afloat communities; in progress for the Submarine community.

● **Curriculum.** NPDC, NSC, and NAVOSHTRACEN courses incorporate ORM into all curricula.

● **Training.** Aviation, Afloat, and Submarine survey teams provide ORM refresher training upon request. Aviation, Afloat, and Submarine safety officer schools provide instructor-level ORM training.

PGO/PYO/DH schools, DIVO training, and Senior Enlisted Academy provide training.

ON-LINE

● **On-Line Training.** Offered online via Navy Knowledge Online and USMC MarineNet. Resources available on NSC website. Total Risk Assessment and Control System (TRACS) & U.S. Army Motor Vehicle Risk Assessment Tool (ASMIS).

ORM Works!

Transition to RM a Must.

Need it On and Off-Duty!

MISHAP RATES

1990
2000
2004



ORM Introduced to Fleet
Aviation Mishap Rates Declining
Afloat and Submarine Communities Show Improvements

Three Crucial Questions

- *What's going to hurt me?*
- *What am I going to do about it?*
- *If I can't do anything, who do I tell?*



QUESTIONS?

¿PREGUNTAS?